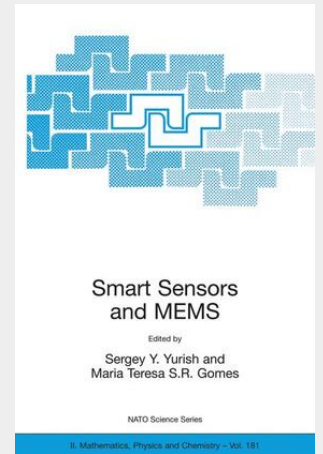


Smart Sensors and MEMS

Proceedings of the NATO Advanced Study Institute on Smart Sensors and MEMS,
Povoa de Varzim, Portugal 8 - 19 September 2003

The book Smart Sensors and MEMS provides an unique collection of contributions on latest achievements in sensors area and technologies that have made by eleven internationally recognized leading experts from Czech Republic, Germany, Italy, Israel, Portugal, Switzerland, Ukraine and USA during the NATO Advanced Study Institute (ASI) in Povoa de Varzim, Portugal, from 8 to 19 September 2003. The aims of this volume are to disseminate wider and in-depth theoretical and practical knowledge about smart sensors and its applications, to create a clear consciousness about the effectiveness of MEMS technologies, advanced signal processing and conversion methods, to stimulate the theoretical and applied research in these areas, and promote the practical using of these techniques in the industry. With that in mind, a broad range of physical, chemical and biosensors design principles, technologies and applications were included in the book. It is a first attempt to describe in the same book different physical, chemical, biological sensors and MEMS technologies suitable for smart sensors creation. The book presents the state-of-the-art and gives an excellent opportunity to provide a systematic, in-depth treatment of the new and rapidly developing field of smart sensors and MEMS. The volume is an excellent guide for practicing engineers, researchers and students interested in this crucial aspect of actual smart sensor design.



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